

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A system ~~An apparatus that effectuates receive diversity within a mobile communication device~~, comprising:

a first antenna that facilitates reception of signals in at least ~~one~~ of a first frequency PCS band, a cellular band, a Korean PCS band, and a China PCS band; and

a second antenna that facilitates reception of signals in a ~~GPS~~ second frequency band and at least ~~one~~ of the first frequency band bands received by the first antenna, wherein tuning of the second antenna depends upon a signal type relayed to the second antenna.

2. (Currently Amended) The ~~system~~apparatus of claim 1, wherein the second antenna is selectively tuned to receive signals in at least ~~one~~ of the first frequency band bands received by the first antenna when reception of signals in a ~~GPS~~ the second frequency band is not desirable.

3. (Currently Amended) The ~~system~~apparatus of claim 1, wherein the second antenna is a top-mounted inverted F-antenna.

4. (Currently Amended) The ~~system~~apparatus of claim 3, wherein the top-mounted inverted F-antenna exhibits circular polarization characteristics.

5. (Currently Amended) The ~~system~~apparatus of claim 1, further comprising:

a first tuning component that facilitates tuning the second antenna for reception of signals in a ~~GPS~~ the second frequency band; and

a second tuning component that facilitates tuning the second antenna for reception of signals in at least ~~one~~ of the first frequency band bands received by the first antenna.

6. (Currently Amended) The ~~system~~apparatus of claim 5, further comprising a RFradio frequency switch that facilitates coupling the second antenna to one of the first tuning component and a second tuning component.

7. (Currently Amended) The systemapparatus of claim 5, the RFradio frequency switch being one of a PIN-diode, a MEMSmicro electro-mechanical system switch, and a FETfield effect transistor switch.

8. (Currently Amended) The systemapparatus of claim 1, further comprising:

a first receiving component that facilitates at least one of transduction, modulation, and processing of a signal in at least one of the first frequency band bands received by the first antenna; and

a second receiving component that facilitates at least one of transduction, modulation, and processing of a GPS-signal in the second frequency band.

9. (Currently Amended) The systemapparatus of claim 8, further comprising a RFradio frequency switch that facilitates coupling the second antenna to one of the first receiving component and the second receiving component.

10. (Currently Amended) The systemapparatus of claim 9, the RFradio frequency switch being one of a PIN-diode, a MEMSmicro electro-mechanical system switch, and a FETfield effect transistor switch.

11. (Currently Amended) The systemapparatus of claim 1, further comprising a component that determines frequency of a signal desirably received by the second antenna.

12. (Currently Amended) The systemapparatus of claim 1, further comprising an emergency component that automatically configures the second antenna to receive a GPS-signal in the second frequency band upon transmitting data to an emergency number.

13. (Currently Amended) A mobile telephone comprising the systemapparatus of claim 1.

14. (Currently Amended) The systemapparatus of claim 1, the second antenna comprising a radiating antenna element that is coupled to a transmission line, wherein length of the transmission line is selectable between at least two lengths.

15. (Currently Amended) The systemapparatus of claim 1, the second antenna being at least one of a PIFAplanar inverted-F antenna, whip antenna, microstrip antenna, L-plane antenna, monopole antenna, E-plane antenna, dielectric resonator antenna, and helix antenna.

16. (Currently Amended) The systemapparatus of claim 1, further comprising:

a first switch that couples one of a first tuning component and a second tuning component to the second antenna, wherein the first tuning component facilitates reception of a GPS-signal in the second frequency band on the second antenna and the second tuning component facilitates reception of a signal in at least one of the first frequency band bands-received by the first antenna on the second antenna;

a second switch that couples one of a first receiving component and a second receiving component to the second antenna, wherein the first receiving component facilitates one of transduction, modulation, and processing of a GPSthe signal in the second frequency band and the second receiving component facilitates one of transduction, modulation, and processing of a the signal in at least one of the first frequency band bands-received by the first antenna; and

a control component that relays commands to at least one of the first switch and second switch to facilitate a desirable coupling, the coupling based at least in part upon a type of signal desirably received by the second antenna.

17. (Currently Amended) A method ~~for effectuating receive diversity within a mobile communication device~~, comprising:

providing a first antenna that facilitates reception of a signal in at least one of a first frequency PCS band, a cellular band, a Korean PCS band, and a China PCS band;

providing a second antenna that facilitates reception of a signal in a GPS-second frequency band;

determining whether a signal in the second frequency band~~a GPS band~~ is desirably received by the second antenna; and

tuning the second antenna to facilitate reception of a signal in at least one of the first frequency band bands-received by the first antenna if reception of a signal in ~~a GPS-~~the second frequency band is not desirable.

18. (Original) The method of claim 17, further comprising altering a length of a transmission line associated with the second antenna to tune the second antenna.

19. (Original) The method of claim 17, further comprising altering an electrical length of a resonating element associated with the second antenna to tune the second antenna.

20. (Currently Amended) The ~~system~~method of claim 17, further comprising tuning the second antenna to receive a signal in a ~~GPS~~ the second frequency band if a signal in a ~~GPS~~ the second frequency band is desirably received by the second antenna.

21. (Currently Amended) A method ~~for modifying a mobile communication device to enable receive diversity~~, comprising:

providing a mobile communication device that includes a first antenna tuned to receive a signal in at least ~~one of a~~ first frequency PCS band, a cellular band, a Korean PCS band, and a China PCS band, and a second antenna tuned to receive a signal in a GPS band;

coupling the second antenna to a first switch;

further coupling the first switch to one of a first tuning circuit that facilitates tuning the second antenna for reception of a signal in a ~~GPS~~ second frequency band and a second tuning circuit that facilitates tuning the second antenna for reception of a signal in at least ~~one of the~~ first frequency band bands received by the first antenna;

coupling the second antenna to a second switch; and

further coupling the second switch to one of a first receiving component that facilitates one of processing, transduction, and modulation of a signal in a ~~GPS~~ the second frequency band and a second receiving component that facilitates one of processing, transduction, and modulation of a signal in at least ~~one of the~~ first frequency band bands received by the first antenna.

22. (Currently Amended) ~~A system~~An apparatus ~~that enables receive diversity to be existent within a mobile communication device~~, comprising:

means for configuring a first antenna to receive data in at least ~~one of a first frequency band~~ PCS band, a cellular band, a Korean PCS band, and a China PCS band;

means for configuring a second antenna to receive ~~one of~~ data in at least ~~one of the first frequency band~~ bands received by the first antenna and GPS data in the second frequency band at a particular instance, the configuring of the second antenna based at least in part upon a type of signal desirably received by the second antenna.

23. (Currently Amended) The ~~system~~apparatus of claim 22, the second antenna being a top-mounted inverted F antenna.

24. (Currently Amended) A system ~~that facilitates receive diversity within a mobile communication device~~, comprising:

a first antenna that facilitates reception of signals in at least two frequency bands;

a second antenna that facilitates reception of signals in a GPS second frequency band and at least one of the frequency bands received by the first antenna; and

a tuning component that dynamically tunes the second antenna to the frequency currently received by the first antenna for at least one frequency band when reception of a GPS signal in the second frequency band is not desirable.

25. (New) The apparatus of claim 1, wherein the first frequency band is a personal communication service band, a cellular band, a Korean personal communication service band, or a China personal communication service band.

26. (New) The apparatus of claim 1, wherein the second frequency band is a global positioning system band.